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CLAIMS:

- 1. (Currently amended) A method of coating a carbon article with a <u>polymerizable</u> metal <u>complex</u> by reductively electropolymerizing the <u>polymerizable</u> metal <u>complex</u> on the carbon article through cyclic voltammetry, <u>and thereby</u> forming a <u>polymerized</u> metal coating on the carbon article <u>by</u> <u>effecting a step-wise increase in current until the polymerizable metal complex is saturated on the carbon article.</u>
- 2. (Previously presented) The method according to claim 1, wherein said reductively electropolymerizing step includes immersing the carbon article in a solution containing a polymerizable and reducible metal compound.
- 3. (Canceled)
- 4. (Previously presented) The method according to claim 2, wherein said reductively electropolymerizing step includes varying electrical potential from about zero volts to about -1.0 volts with a rate of potential change of about 100 millivolts per second.
- 5. (Previously presented) The method according to claim 4, wherein said method further includes repeating the varying step until a sufficient metal coating is deposited on the carbon article.
- 6. (Withdrawn) A metal-coated carbon article formed by the method of claim

1.

7. (Withdrawn) The metal-coated carbon article according to claim 6,

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wherein said carbon article is selected from the group consisting essentially of carbon paper, carbon rods, and carbon electrodes.

- 8. (Withdrawn) The metal-coated carbon article according to claim 7, wherein said carbon article is an electrode.
- 9. (Withdrawn) The metal-coated carbon article according to claim 8, wherein said electrode is a fuel cell electrode.
- 10. (Withdrawn) The metal-coated carbon article according to claim 6, wherein said metal is selected from the group consisting essentially of platinum, gold, silver, palladium, ruthenium, rhodium, and iridium.
- 11. (Withdrawn) The metal-coated carbon article according to claim 10, wherein said metal-coated carbon article is a platinum-coated carbon electrode.
- 12. (Withdrawn) The metal-coated carbon article according to claim 11, wherein said coating is present in an amount less than about 0.1 mg/cm.sup.2.
- 13. (Withdrawn) A metal-coated carbon article comprising: a carbon article; and a metal coating disposed on an exterior surface of said carbon article, said coating being present in an amount less than about 0.1 mg/cm.sup.2.
- 14. (Withdrawn) The metal-coated carbon article according to claim 13, wherein said carbon article is selected from the group consisting essentially of carbon paper, carbon rods, and carbon electrodes.

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15. (Withdrawn) The metal-coated carbon article according to claim 14, wherein said carbon article is an electrode.

- 16. (Withdrawn) The metal-coated carbon article according to claim 15, wherein said electrode is a fuel cell electrode.
- 17. (Withdrawn) The metal-coated carbon article according to claim 13, wherein said metal is selected from the group consisting essentially of platinum, gold, silver, palladium, ruthenium, rhodium, and iridium.
- 18. (Withdrawn) The metal-coated carbon article according to claim 16, wherein said metal-coated carbon article is a platinum-coated carbon electrode.
- 19. (Withdrawn) The metal-coated carbon article according to claim 13, wherein said coating is present in an amount less than about 0.08 mg/cm.sup.2.
- 20. (Withdrawn) The metal-coated carbon article according to claim 13, wherein said coating is present in an amount less than about 0.05 mg/cm.sup.2.
- 21. (Withdrawn) The metal-coated carbon article according to claim 13, wherein said coating is present in an amount less than about 0.03 mg/cm.sup.2.
- 22. (Withdrawn) The metal-coated carbon article according to claim 13, wherein said coating is capable of reducing oxygen in phosphoric acid, neutral, and basic media.
- 23. (Withdrawn) The metal-coated carbon article according to 22, wherein

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said metal-coated carbon article are capable of rendering active platinum surfaces for charge accumulation through hydrogen deposition and release.

24. (Currently amended) A method of coating a carbon article with a <u>polymerizable</u> metal complex by reductively electropolymerizing the <u>polymerizable</u> metal on the carbon article by controlling potential, thereby <u>and</u> forming a <u>polymerized</u> metal coating on the carbon article <u>by effecting a step-wise increase in current until the polymerizable metal is saturated on the carbon article.</u>